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11/12/2003	Munekatsu Shimada	50353-624	3529
09/06/2006		EXAMINER	
MCDERMOTT, WILL & EMERY		SHEEHAN, JOHN P	
600 13th Street, N.W. Washington, DC 20005-3096		ART UNIT	PAPER NUMBER
		1742	1742
	11/12/2003 09/06/2006 WILL & EMERY I.W.	11/12/2003 Munekatsu Shimada 09/06/2006 WILL & EMERY I.W.	11/12/2003 Munekatsu Shimada 50353-624 09/06/2006 EXAM WILL & EMERY SHEEHAN I.W. 20005-3096 ART UNIT

DATE MAILED: 09/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/705,235	SHIMADA ET AL.
Office Action Summary	Examiner	Art Unit
	John P. Sheehan	1742
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from 1, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on 22 Ju	ine 2006.	
<u> </u>	action is non-final.	
3) Since this application is in condition for allowar	nce except for formal matters, pro	osecution as to the merits is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.
Disposition of Claims		
4) Claim(s) 1-19 is/are pending in the application.		
4a) Of the above claim(s) 12-19 is/are withdraw	n from consideration.	-
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-11</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or	r election requirement.	
Application Papers		
9) The specification is objected to by the Examine	r.	
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the I	Examiner.
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).
a)⊠ All b)□ Some * c)□ None of:		
1. Certified copies of the priority documents		
2. Certified copies of the priority documents		
3. Copies of the certified copies of the prior	-	ed in this National Stage
application from the International Bureau * See the attached detailed Office action for a list of	, , ,	ad.
dec the attached detailed Office action for a list (or the contined copies not receive	····
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Summary	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>April 9</u>, 2004. 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-152)
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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group I claims 1 to 11 in the reply filed on June 22, 2006 is acknowledged

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 1, 7 to 9, 10 and 11 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Arai et al. (Arai, US Patent No. 6,558,482).

Aria teaches an Nd-Fe-B type rare earth magnet alloy having a soft magnetic phase and a hard magnetic phase and a composition that is encompassed by the Nd-Fe-B type rare earth magnet alloy composition recited in each of acclaims 1, 7 to 9, 10 and 11 (column 2, lines 13 to 20). Arai teaches that the grain diameter of the hard and soft magnetic phase is 1 to 100 nm (column 7, lines 15 to 20) which is encompassed by each of the applicants' claims. Arai teaches that the alloy is formed into a ribbon (column 8, lines 20 to 33) as recited in applicants' claim 7. Arai teaches a specific example wherein the ribbon has a thickness of 30 microns which is encompassed by applicants' claim 8. Aria teaches that the alloy ribbon is heated to a temperature in the range of 400 to 900°C (column 9, lines 25 to 30) and ball milled (column 9, lines 42 to 50) as recited in applicants' claims 10 and 11 respectively. Thus, in addition to teaching an alloy composition that is encompassed by the claim 1, 7 to 9, 10 and 11, Arai also teaches a process of making the claimed alloy that is the same or similar to the process recited in product by process claims 10 and 11.

The claim and Aria differ in that Arai is silent with respect to the minimum distance between the soft magnetic phases.

However, one of ordinary skill in the art at the time the invention was made would have considered the invention to have been obvious because the alloy taught by the reference has a composition that is encompassed by the instant claims and is made by

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a process which is similar to, if not the same as, applicants' process of making the instantly claimed alloy. In view of this, the alloy taught by the reference would be expected to posses all the same properties as recited in the instant claims, In re Best, 195 USPQ, 430 and MPEP 2112.01.

"Where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a prima facie case of either anticipation or obviousness has been established, In re Best, 195 USPQ 430, 433 (CCPA 1977). When the PTO shows a sound basis for believing that the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are not.' In re Spada,15 USPQ2d 655, 1658 (Fed. Cir. 1990). Therefore, the prima facie case can be rebutted by evidence showing that the prior art products do not necessarily possess the characteristics of the claimed product. In re Best,195 USPQ 430, 433 (CCPA 1977)." see MPEP 2112.01.

6. Claims 1 to 11 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Kojima et al. (Kojima, US Patent No. 6235,129)

Kojima teaches an Nd-Fe-B type rare earth magnet alloy having a soft magnetic phase and a hard magnetic phase (column 1, lines 59 to 61) and a composition that overlaps the Nd-Fe-B type rare earth magnet alloy composition recited in each of acclaims 1 to 11 (column 2, lines 13 to 37). Kojima teaches that the grain diameter of the hard and soft magnetic phase is 100 nm or less (column 5, lines 62 to 67) which is encompassed by each of the applicants' claims. Kojima teaches that the alloy is formed into a ribbon (column 6, lines 40 to 50) as recited in applicants' claim 7. Kojima teaches that the alloy ribbon is heated to a temperature in the range of 400 to 800°C (column 7, lines 28 to 30) and ground to powder (column 15, lines 34 to 37) as recited in

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applicants' claims 10 and 11 respectively. Thus, in addition to teaching an alloy composition that is encompassed by the claim 1 to 11, Kojima also teaches a process of making the claimed alloy that is the same or similar to the process recited in product by process claims 10 and 11.

The claim and Kojima differ in that Kojima is silent with respect to the minimum distance between the soft magnetic phases.

However, one of ordinary skill in the art at the time the invention was made would have considered the invention to have been obvious because the alloy taught by the reference has a composition that is encompassed by the instant claims and is made by a process which is similar to, if not the same as, applicants' process of making the instantly claimed alloy. In view of this, the alloy taught by the reference would be expected to posses all the same properties as recited in the instant claims, In re Best, 195 USPQ, 430 and MPEP 2112.01.

"Where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a prima facie case of either anticipation or obviousness has been established, In re Best, 195 USPQ 430, 433 (CCPA 1977). 'When the PTO shows a sound basis for believing that the products of the applicant and the prior art are the same, the applicant has the burden of showing that they are not.' In re Spada,15 USPQ2d 655, 1658 (Fed. Cir. 1990). Therefore, the prima facie case can be rebutted by evidence showing that the prior art products do not necessarily possess the characteristics of the claimed product. In re Best,195 USPQ 430, 433 (CCPA 1977)." see MPEP 2112.01.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John P. Sheehan whose telephone number is (571) 272-1249. The examiner can normally be reached on T-F (6:45-4:30) Second Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000

John P. Sheehan Primary Examiner Art Unit 1742